This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *March 31, 1916.*

MONTHLY LIST OF PUBLICATIONS.

[March, 1916.]

HOW TO SECURE PUBLICATIONS.

A copy of any of the publications listed herein, including those with price named, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply of the publications listed below is exhausted, those publications of which the price is indicated can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

FARMERS' BULLETINS.—FOR FREE DISTRIBUTION.

No price is quoted for Farmers' Bulletins for the reason that the department's supply of the current numbers is ordinarily sufficient to make it possible to send them free to all applicants.

The Care and Improvement of the Wood Lot. By C. R. Tillotson, Forest Examiner. Pp. 24, figs. 6. Contribution from the Forest Service. Mar. 23, 1916. **(Farmers' Bulletin 711.)**

Suitable for general distribution.

School Lunches. By Caroline L. Hunt, Assistant in Home Economics, States Relations Service, and Mabel Ward, Late Director of Home Science, Mississippi Industrial Institute and College. Pp. 27. Contribution from the States Relations Service. Mar. 17, 1916. **(Farmers' Bulletin 712.)**

Is of special interest to housekeepers throughout the country, particularly those with children of school age.

Sweet-Potato Diseases. By L. L. Harter, Pathologist, Cotton and Truck Disease Investigations. Pp. 26, figs. 21. Contribution from the Bureau of Plant Industry. Mar. 11, 1916. **(Farmers' Bulletin 714.)**

Is of interest to growers of sweet potatoes in the Eastern, Southern, Middle Western, and Southwestern States.

Food for Young Children. By Caroline L. Hunt, Scientific Assistant, Office of Home Economics. Pp. 20, figs. 4. Contribution from the States Relations Service. Mar. 4, 1916. **(Farmers' Bulletin 717.)**

Especially adapted to the use of mothers who wish some simple and short discussion of the subject expressed in housekeepers' terms.

DEPARTMENT BULLETINS.—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Notes on Five North American Buffalo Gnats of the Genus Simulium. By Arthur W. Jobbins-Pomeroy, Entomological Assistant. Pp. 48, pl. 5, figs. 15. Contribution from the Bureau of Entomology. (Professional Paper.) Mar. 6, 1916. **(Department Bulletin 329.)** Price, 10 cents.

This paper of interest to persons living east of the Mississippi River.

Methods for the Determination of the Physical Properties of Road-Building Rock. By Frank H. Jackson, Jr., Assistant Testing Engineer. Pp. 28, figs. 12. Contribution from the Office of Public Roads and Rural Engineering. (Professional Paper.) Mar. 17, 1916. **(Department Bulletin 347.)** Price, 10 cents.

Is a partial revision of Office of Public Roads Bulletin No. 44, and of interest to road engineers and builders.

The Utilization of Cherry By-Products. By Frank Rabak, Chemical Biologist, Drug-Plant and Poisonous-Plant Investigations. Pp. 24. Contribution from the Bureau of Plant Industry. (Professional Paper.) Mar. 10, 1916. **(Department Bulletin 350.)** Price, 5 cents.

Suggests a method of utilizing the cherry pits and juices accumulated at canneries. Of interest to those engaged in the fruit-packing industry.

Moisture Content and Shrinkage of Forage, and the Relation of These Factors to the Accuracy of Experimental Data. By H. N. Vinall, Agronomist, and Roland McKee, Assistant Agrostologist, Office of Forage-Crop Investigations. Pp. 37. Contribution from the Bureau of Plant Industry. (Professional Paper.) Mar. 16, 1916. **(Department Bulletin 353.)** Price, 10 cents.

Of interest to dealers in hay and other forage crops.

Milk and Cream Contests. By Ernest Kelly, in Charge of Market Milk Investigations, and L. B. Cook and J. A. Gamble, Market Milk Specialists, Dairy Division. Pp. 24. Contribution from the Bureau of Animal Industry. (Professional Paper.) Mar. 7, 1916. **(Department Bulletin 356.)** Price, 5 cents.

Is of interest to dairymen generally, and especially to those who are engaged in improving the output of their establishments.

Comparative Spinning Tests of the Different Grades of Arizona-Egyptian with Sea Island and Sakellaridis Egyptian Cottons. By Fred Taylor, Cotton Technologist, and William S. Dean, Assistant in Cotton Testing. Pp. 21, figs. 2. Contribution from the Office of Markets and Rural Organization. (Professional Paper.) Mar. 30, 1916. **(Department Bulletin 359.)** Price, 5 cents.

Is of interest to the growers, cotton merchants, manufacturers, and dealers in Arizona-Egyptian, Sea Island, and Sakellaridis Egyptian cottons and cotton yarns.

Brown-Rot of Prunes and Cherries in the Pacific Northwest. By Charles Brooks and D. F. Fisher, Office of Fruit-Disease Investigations. Pp. 10, pls. 3. Contribution from the Bureau of Plant Industry. (Professional Paper.) Mar. 6, 1916. **(Department Bulletin 368.)** Price, 5 cents.

Is intended particularly for the benefit of prune and cherry growers of western Washington and Oregon, but is of interest to growers of these fruits in other sections of the United States. It is also of scientific interest to plant pathologists in general.

DEPARTMENT BULLETINS.

Bulletins listed hereunder can not be furnished through this Office, as the Department's supply is exhausted. Remit price for same to the Superintendent of Documents, Government Printing Office. Do not send money to this Department.

Extension Course in Vegetable Foods for Self-Instructed Classes in Movable Schools of Agriculture. By Anna Barrows, Director, School of Domestic Science, Chautauqua, N. Y., and Instructor, School of Household Arts, Columbia University. Pp. 78, figs. 4. Contribution from the States Relations Service. (Professional Paper.) Mar. 22, 1916. **(Department Bulletin 123.)** Price, 10 cents.

Is intended for the use of small groups of farm women assembled as a class to study the subject in a systematic manner with one of their number as a leader. It is adapted for such use in any part of the United States.

Birds of Porto Rico. By Alex Wetmore, Assistant Biologist. Pp. 140, pls. 10. Contribution from the Bureau of Biological Survey. (Professional Paper.) Mar. 24, 1916. **(Department Bulletin 326.)** Price, 30 cents.

A report on the relations of the island birds to the insect fauna of Porto Rico.

The Raisin Industry. By George C. Husmann, Pomologist in Charge of Viticultural Investigations, Office of Horticultural and Pomological Investigations. Pp. 15, pls. 9, figs. 3. Contribution from the Bureau of Plant Industry. Mar. 17, 1916. **(Department Bulletin 349.)** Price, 10 cents.

This bulletin has been prepared for the purpose of answering questions relative to the raisin industry of the United States. The pruning, training, cultural methods, and varieties suitable for raisin purposes, as well as the methods of harvesting and drying the grapes and the curing and processing of the raisins, are described.

MISCELLANEOUS.

List of Workers in Subjects Pertaining to Agriculture and Home Economics in the U. S. Department of Agriculture and in the State Agricultural Colleges and Experiment Stations. (Corrected to December, 1915). Pp. 129. Prepared in the Division of Publications. Mar. 30, 1916.

The Influence of Relative Area in Intertilled and Other Classes of Crops and Crop Yield. By D. A. Brodie, Agriculturist. Pp. 8, fig. 1. Contribution from the Office of Farm Management, Office of the Secretary. Mar. 31, 1916. **(Circular 57,** Office of the Secretary.) Price, 5 cents.

SERIALS.

Journal of Agricultural Research. (Issued weekly. For sale only.)

Vol. 5, No. 23. Mar. 6, 1916. Contents: Flow through Weir Notches with Thin Edges and Full Contractions. By V. M. Cone.—Identity of Eriosoma pyri. By A. C. Baker. Pp. 1051–1119, figs. 26. Price, 15 cents.

Same, No. 24. Mar. 13, 1916. Contents: A New Penetration Needle for Use in Testing Bituminous Materials. By Charles S. Reeve and Fred P. Pritchard.—A New Irrigation Weir. By V. M. Cone. Pp. 1121–1143, pl. 1, figs. 16. Price, 10 cents.

Same, No. 25. Mar. 20, 1916. Contents: Inheritance of Fertility in Swine. By Edward N. Wentworth and C. E. Aubel.—Relation of Green Manures to the Failure of Certain Seedlings. By E. B. Fred.—A New Spray Nozzle. By C. W. Woodworth.—A New Interpretation of the Relationships of Temperature and Humidity to Insect Development. By W. Dwight Pierce. Pp. 1145–1191, pls. LXXXIII–LXXXVI, figs. 7. Price, 15 cents.

NOTE.—Beginning with Volume 5, The Journal of Agricultural Research will be issued weekly and distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being $3 per year, 52 numbers.

Experiment Station Record. Vol. XXXIV, No. 4, March, 1916. E. W. Allen, Ph. D., Editor. Pp. 301–400. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 2, No. 2, February, 1916. Pp. 13–20. (Bureau of Crop Estimates.)

Same. Vol. 2, No. 3, March 16, 1916. Pp. 21–28. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

SERVICE AND REGULATORY ANNOUNCEMENTS.—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only,* at prices noted.

Bureau of Animal Industry. No. 106. February, 1916. Pp. 13–20. Mar. 22, 1916. Price, 5 cents.

Federal Horticultural Board. No. 24. January, 1916. Pp. 13. Mar. 1, 1916. Price, 5 cents.

Federal Horticultural Board. No. 25. February, 1916. Pp. 15–30. Mar. 24, 1916. Price, 5 cents.

Office of Markets and Rural Organization. No. 7. Pp. 33–50, figs. 2. Mar. 17, 1916. Price, 5 cents.

A brief history of the movement to secure universal cotton standards.

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SOIL SURVEYS.

All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Lee County, Iowa. By L. V. Davis, of the U. S. Department of Agriculture, and Martin E. Sar, of the Iowa Agricultural Experiment Station. Pp. 36, pl. 2, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Webster Parish, Louisiana. By A. H. Meyer, E. S. Vanatta, B. W. Tillman, and R. F. Rogers. Pp. 40, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Montgomery County, Maryland. By William T. Carter, Jr., of the U. S. Department of Agriculture, and J. P. D. Hull, of the Maryland Geological Survey. Pp. 39, pls. 5, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Clinton County, New York.—By E. T. Maxon, of the U. S. Department of Agriculture, and W. R. Cone, of the New York State College of Agriculture. Pp. 37, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Union County, North Carolina. By B. B. Derrick, of the U. S. Department of Agriculture, and S. O. Perkins, of the North Carolina Department of Agriculture. Pp. 38, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Portage County, Ohio. By Charles N. Mooney and H. G. Lewis, of the U. S. Department of Agriculture, and A. F. Head and Carl W. Shiffler, of the Ohio Agricultural Experiment Station. Pp. 44, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Trumbull County, Ohio. By George N. Coffey and John Woodard, of the Ohio Agricultural Experiment Station, and J. M. Snyder, of the U. S. Department of Agriculture. Pp. 53, figs. 2, map. (From F. O. Soils, 1914.) Price, 15 cents.

Soil Survey of Raleigh County, West Virginia. By W. J. Latimer. Pp. 34, fig. 1, map. (From F. O. Soils, 1914.) Price, 15 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. (For sale only.) Vol. 43, No. 12. December, 1915. [Mar. 1, 1916.] Pp. 589–650, charts 9, figs. 7. Price, 25 cents a copy, $2.50 a year. Payable to the Superintendent of Documents.

Special Articles: Solar and sky radiation at Washington, D. C., during December, 1915. By H. H. Kimball.—Solar radiation intensities at Santa Fe, N. Mex., during September, November, and December, 1915. By H. H. Kimball.—A halo in the making. By J. R. Weeks.—Lunar halo of June 24–25, 1915, at Richmond, Va. By T. R. Brooks and others.—Penetrating radiation present in the atmosphere. By A. Gockel.—Concomitant changes in terrestrial magnetism and solar radiation. By L. A. Bauer.—Radioactive deposit from the atmosphere on an uncharged wire. By S. J. M. Allen.—Penetrating radiation at high altitudes. By W. Kolhorster.—Aurorae, earth currents, and magnetic disturbances. By Otto Klotz.—The melting of snow. By Robert E. Horton (6 figs.).—Meteorology and seismology at the Pan-American Scientific Congress. By C. F. Tallman.—Meaning of the word "fair" in meteorology. By Eleanor Buynitzky.—Aurelia-alto-cumulus cloud. By George Reeder.—Tornadoes in Kansas. By S. D. Flora.—Reforestation and occult condensation. By Paul Descombes.—Percentage frequency of thunderstorms in the United States.—Storms and hurricanes in Jamaica, 1655–1915. By Maxwell Hall.—Application of physical principles to problems suggested by oceanic circulation and temperatures. By Geo. F. McEwen.—Albert Adams Young, 1836–1916. By J. H. Armington.

National Weather and Crop Bulletin, No. 2, February, 1916, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

Snow and Ice Bulletins for March 7, 14, 21, 28, 1916. These bulletins are issued weekly during the winter season, based upon data from regular Weather Bureau stations, supplemented by reports from selected cooperative observers. Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1916